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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,423	02/13/2001	Alexandr Kuzminskiy	3-16-16	1912
22046	7590 06/23/2004		EXAMINER	
LUCENT TECHNOLOGIES INC.			PHU, PHUONG M	
	DOCKET ADMINISTRATOR 101 CRAWFORDS CORNER ROAD - ROOM 3J-219 HOLMDEL, NJ 07733		ART UNIT	PAPER NUMBER
			2631	6
			DATE MAILED: 06/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Antique Community	09/782,423	KUZMINSKIY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Phuong Phu	2631			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 13 F	ebruary 2001.				
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	, , ,				
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 6-9 is/are rejected. 7) ☐ Claim(s) 3-5 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	or election requirement.	,			
9)☐ The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>13 February 2001</u> is/ar	10)⊠ The drawing(s) filed on <u>13 February 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	- · · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119	•				
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Pate			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5</u>. 	6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The applicant is noted that the IDS filed on 2/13/01 has been considered by the examiner; however, reference "European Search Report", listed under section OTHER, is not initialed by the examiner because it is not considered as a prior art.

Drawings

3. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01.

Claim 6 omits the functional/structural/connectional interrelationships of "a different signal selector" with other elements claimed in claims 1 and 6 (e.g., capture signal estimators;

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antenna means, spatio-temporal filter means, signal selector means, etc.) for making the claimed collision recovery signal processing unit as a complete operative and connective system.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1, 2 and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Esmailzadeh et al (6,163,533).

As per claims 1, 8 and 9, see figures 1-6, and col. 2, line 15 to col. 3, line 40 and col. 5, line 47 to col. 6, line 28, Esmailzadeh et al discloses a signal processing system and associated method (see figure 3) comprising:

antenna means (Antenna 1) having a plurality of output branches;

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a plurality of filter means (Accumulator (signature 1),..., Accumulator (signature 1)), which each estimates a signal received by the antenna means by applying a different signature sequence (signature 1,..., signature 1) and supplies a corresponding candidate signal; and

signal selector means (Peak Detection) which selects peak signals from the candidates signals in accordance with a predetermined criterion (see col. 3, lines 2-11).

Further regarding to claim 8, Esmailzadeh et al discloses a plurality of user mobile stations (16, 16) (see figure 6); encoder means (Preamble spreading code, Data field spreading code) (see figure 2) to encode signals from said user mobile stations into a plurality of timeslots (see figure 1); first transmitter/receiver means (see figure 2); second transmitter/receiver means (see figure 3); decoder means (convolutional decoder) (see figure 5) and a data sink (ACK generator/higher layers, ...) (see figure 5).

As per claim 2, Esmailzadeh et al discloses that other training symbols (Pre-amble, Mobile ID, Short data, CRC, etc.) are processed in additional to different signature sequences (see figures 1 and 5).

As per claim 7, Esmailzadeh et al discloses that each filter means runs the same type of algorithm (see figure 4).

Allowable Subject Matter

8. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claim 6 would be allowable if rewritten to overcome the rejection(s) under 35
 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

10. Reference (6,259,724) is additionally cited because they are pertinent to the claimed invention.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 703-308-0158. The examiner can normally be reached on M-F (8:30-6:00) First Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 703-306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu Primary Examiner Art Unit 2631

Phuong Phu 05/07/04

Phung The

PHUONG PHU
PRIMARY EXAMINER